Bridge Inspection															
Bridge File Numb	er	0061	1 -1 Bridge						Form Type			TH PSR			
Year Built/Year		1963/						t No.			2				
Supstr								Ins	spector N	lame		Garry Roberts			
Bridge or Town N	ame	MOR	LEY						Inspector Class			BR CLS A			
Located Over		BOW	RIVER, 2.13	3, WATE	RCRS	S-ST			Assistant Name						
Located On		LOCA	AL ROAD					-	sistant C						
Water Body CI./Ye	ear								spection I			07-Dec-2011	l		
Navigabil. Cl./Yea	ar								ita Entry			Erin Roberts	•		
Legal Land Locati	ion	SW S	EC 36 TWP	25 RGE	7 W5	M						24-Jan-2012			
Longitude, Latitud	de	-114:	51:01, 51:10:	:23					Data Entry Date Reviewer Name			Tom Carey	•		
Road Authority		Albert	ta Transporta	ation (Al	T)			-	view Dat			21-Dec-2011	<u> </u>		
Contract Main. Ar	ea	CMA2	28					-	pt. Revie		lama				
Clear Roadway/S	kew	7.3 /							pt. Revie			06-Feb-2012			
AADT/Year		400 /	2005 (E)						llow-Up E		.е	00-Feb-2012			
Road Classification	on	RCU-	208-110						ilow-op i	Бу					
Detour Length (kn	n)	40													
Allowable Load (t)		gle (CS1 28		Sem	i C	S2 49		Train CS		3 62		> On Critical Spans		
														>Critical M	ember
Design Loading:		(CS750											> Primary S	Span
						Р	osting	nfor	mation						
Required Vert. Cla			<u> </u>												
Posted Vertical C				Yes						1					(Y/N) Yes
	NΒ		n Bridge (m)		In Adv		, ,	Yes	Yes Lane SB On Bridge (m) 5.8 In Advance (Y/N)						
			arance @ gu	itter due	to cu	rved p	ortal.								
Required Load Po	osting	(t)		Single					Semi			Truck Train			
Posted Loading (t	:)			Single					Semi			Truck Train			
Posted: L	_ane	NE	3	At Junction (Y		Y/N)	/N) No		In Advance (Y/N)		No	At Bridge (Y/N)		No	
Posted: L	_ane	SE	3	At Junction (Y		Y/N)	/N) No		In Advance (Y/N)		No At Bridge (Y/N) No		No		
Remarks	Not red	quired	l												
Hazard Marker At	Bridg	ge (Y/N	N) Yes												
Remarks															
Other Sign Types	;		80 km/h	ır, curve	, 50 kr	m/hr 8	& schoo	zon	e to Sout	th.					
						U	tilities (Loca	ated at)						
Utility Attachment	s TE	ELEPH	HONE UTILI	ΓIES-PH	HONE	LINE									
Telephone A	Attach	ed to	West rail.					Ga	as						
Power 3	3 lines	@ W	est side.					Μι	Municipal						
Others									Problem (Y/N) No						
Remarks															
							Appro	ach	Road						
						Last	Now	Ex	Explanation of Condition						
Horizontal Alignm	ent					5	5	_ No	passing	, curve	es an	d hills both er	ds of	the bridge.	
Vertical Alignmen	t					6	6								
Poodway Width (r	Do-a-t														
Roadway Width (m) 8.500				7	6										
Approach Bump Guardrail (Y/N) Yes			,	U	33	enlit or h	rokon	noote	- A CE 9 CIA	@ SE & SW, some nuts missing from rail to					
Guardrail (Y/N)			168			2	2	oq	st bolts.		•			·	y nom rall to
Guardrail			20,000			3	3	Ra	il damag	ed but	adeo	quate @ NE 8 lamaged rails	NW.	_	
Length (m)	rd /\/\	NIN .	26.000					No	t thriebe	am		· ·	at INE		
Current Standar		N)	No	D D C : : :	/N.1			Mi	ssing 14	splice	bolts				
Termination Typ	oe		TURNE ENDS	שטט ט	IN .										
Drainage						6	6								

					Approa	nch Road
				Last	Now	Explanation of Condition
Approach Road Gener	al Rating			5	5	
	·					
					<u> </u>	tructure
Bridge Component				Last	Now	Explanation of Condition
(Primary Span : TH, 3 S	pans, Ler	ngths(n	n): 12.5-76.2-1	2.5, A-	Ident I	Number: A0438-01)
Special Features				1		
Special Feature						
(Type :)				1		
Special Feature						
(Type :)						
Wearing Surface/Deck	Γορ Detail	Ratings	5			
N (%)	1 (%)		2 (%)	3 (%)		
Last 0		0	0		0	
Now 0.0	C	0.0	0.0	0	0.0	
Wearing Surface/Deck	Гор			6	5	Chipcoat epoxy. Worn off 1.5m x 0.5m @ South.
(Material Type : CON	VENTIONA	AL CHII	P SEAL COAT	Γ)		
(Plank Thickness(mm):)					
(Plank Width(mm):)						
Deck Rideability					7	
Deck Joints				7	7	
Temperature (deg. C)		-8				
(Expansion Type : GL ETC);ARMOURED G SLIDING PLATES))	AND (WA LAND (W	BO-MA ABO UI	UER, TRANS NDER FINGEF	FLEX, R OR		
(Fixed Type :)						
Gap Size (mm)		Gap L	ocation.			
63		South				Exp.
70		North	•			Fixed.
Curbs/Wheel Guards				8	7	Steel wheelguards.
(Curb Type : Standar	d)					
(Type : STEEL)						
(Curb Height(mm) : 27	75)					
(Width(mm) : 340)						
Bridge Rail				4	4	Missing 6 splice bolts and 1 rail to post bolt at SW
(Type : FLEX BEAM)						Rail missing bolts at SW batter post and has pack rust between rail
Bridge Rail Posts/Block	ing			7	7	segments
(Type : POST STEEL		EEL)				Minor chips & corrosion. Base plates corroding
Bridge Rail/Posts Coatin		,		6	5	a minior chips & corresion. Dase plates correding
(Type : PAINT)	<u> </u>					1
Sidewalk				7	6	

							structure
Bridge Comp					Last		Explanation of Condition
(Primary Spa	n : TH, 3 Spar	ns, Len	ngths(m	n): 12.5-76.2-1	2.5, A-	Ident N	Number: A0438-01)
Wide Load Da	amage (Y/N)		No				<u></u>
High Load Da	amage (Y/N)	1	No				Three top chord members missing hardware. Two batter posts missing hardware
Top Chord					7	7	
Batter Posts					7	7	One diagonal with a bolt on angle
Sway Bracings Diagonals						7	
						7	10 bolts in total missing (see UT 2010). Minor loss of section from previous corrosion.
Verticals					7	7	Four verticals missing hardware. Each portal missing hardware.
Portals					7	7	Each portal missing hardware.
Connections						4	
Floor Beams					7	7	
Bottom Chord	t				7	7	One bottom chord missing bolt 7/ bay x 10 bays
(No. of String	ers : 70)						- 17 bay x 10 bays
Stringer Deta							Missing or damaged hardware T.C. at U1E, U5E and U6E, B.P. at
_						unt)	U9W and U9E, Verticals at L2W, L4W, L6W and L8W, portals at
Last							U1E, U9E and U9W, Diagonals along U9L8E, Bottom chord L8E
Now							
Stringers					6	6	
(Type: STEEL)							
(Width(mm)) : 190)						
(Depth(mm) : 460)						
(Spacing(m	m) : 970)						
Paint Condition					6	6	Primer showing through along to chord.
(Colour Des	scription : GRE	EEN)					Some rust inside diagonals at lower connections.
(Colour Cod	·	,					
Touchup Re	equired (Y/N)	1	No				
Bearings					7	7	A/B slightly bent
Temperatur	re (deg. C)		-8				P1 at L10 (South)
•	Type : NEOP			BEARING:RC	LLER	NEST	P2 at L0 (North)
BEARING)							
(Fixed Type	: PINNED BE		•				_
Functioning	(Y/N)	,	Yes				
Sub Deck/De	ck Underside				7	5	For the portions viewed
(Material Ty	pe : CONCRE	ETE)					
(Plank Thic	kness(mm) : 1	50)					
(Plank Widt	h(mm) :)						
Defects (Pe	rcent Area)		0				
Span Alignm	ent Problems	s					
Vertical (Y/I	N)		No				
Horizontal (Y/N)		No				
Superstructu	ure General R	lating			4	4	
Bridge Comp	oonent				1.		Explanation of Condition
(Secondary S					Last	INOM	Explanation of Condition
Special Feat							
Special Featu						Х	
(Type:)							1
Special Featu	Ire					Х	
(Type:)							

					Supers	structure
Bridge Component						Explanation of Condition
(Secondary Span : RM)				1=0.00	, , , , , ,	
Wearing Surface/Deck To	p Detail	Ratings	3			
N (%)	1 (%)		2 (%)	3 (%)		
Last 0		0	0		0	
Now 0.0	0	0.0	0.0	0	.0	
Wearing Surface	·		•	6	5	Chipcoat on epoxy.
(Material Type : CONVI	ENTION/	AL CHIE	P SEAL COAT	Γ)		Sections of epoxy 2m2 failed @ North span & South span @ ends.
(Thickness(mm):)				,		
Lateral Connection Proble (Y/N)	em I	No				
Deck Top				N	N	
Deck Rideability				8	7	
Deck Joints				7	7	
Temperature (deg. C)		-8			'	
(Expansion Type : GLA ETC);ARMOURED GL SLIDING PLATES))	ND (WA	BO-MA ABO UN	UER, TRANS NDER FINGER	FLEX, R OR		
(Fixed Type :)		1				_
Gap Size (mm)						_
85						
80		South	Abut			_
						_
						_
						_
Deck Drainage				7	7	_
Drains Clogged (Y/N)		No				
Curbs/Median				7	7	
(Curb Type : Standard))					
Scaling (Percent Area)	(0				
Bridge Rail				5	5	
(Type : FLEX BEAM)						1 anchor nut missing at SW and nut missing on pedestrian rail anchorage at NW
Bridge Rail Posts				3	3	
(Type : POST STEEL ; F	POST ST	EEL)				20% corrosion on posts.
Bridge Rail/Posts Coating	9			4	4	
(Type : PAINT)						
Sidewalk				6	6	Average 50mm concrete placed on SW sidewalk. South end of 'G' girder @ top broken @ North span @ sidewalk.
Girder Detail Ratings						
N (count)	1 (cou	ınt)	2 (count)	3 (cou	nt)	
Last 0		0	0	0		
Now 0		0	0		0	
Girders				6	6	Main roadway RM girders rate '7'. RM girders which are main girders
Cracking (Y/N)	,	Yes				have hairline longitudinal cracks - minor. Concrete box girder & standard precast girders @ West under sidewalk. Sidewalk box
Spalling (Percent Area)		0				girder @ SW has medium flex cracks. Standard precast girders have
(Number Of Girders : 18)						iong wide cracks in both legs in AZ. SP3 G2 small spall midspan. 7 RM girders, 1 precast, 1 box
Atteral Connection Problem Y/N) Deck Top Deck Rideability Deck Joints Temperature (deg. C) -8 (Expansion Type: GLAND (WABO-MAUER, TR. ETC); ARMOURED GLAND (WABO UNDER FINSLIDING PLATES)) (Fixed Type:) Gap Size (mm) Gap Location North Abut South Abut Deck Drainage Drains Clogged (Y/N) No Curbs/Median (Curb Type: Standard) Scaling (Percent Area) 0 Bridge Rail (Type: FLEX BEAM) Bridge Rail/Posts (Type: POST STEEL; POST STEEL) Bridge Rail/Posts Coating (Type: PAINT) Sidewalk Sirder Detail Ratings N (count) 1 (count) 2 (count) Last 0 0 0 Girders Cracking (Y/N) Yes Spalling (Percent Area) 0			X	X		
1 0						

					Supers	structure
Bridge Com	ponent					Explanation of Condition
(Secondary S						
Bearings	<u> </u>			7	7	
Temperatu	re (dea. C)	-8				
	Type : NEO	PRENE STRIF	BEARING;R	OLLER	NEST	
	e : PINNED E	BEARING)				
Coating Ad	lequate (Y/N)	Yes				
Functioning	Functioning (Y/N) Yes					
Deck Unders					7	
Stains (Per	cent Area)	2				
Span Alignn	nent Probler	ns				
Vertical (Y/	N)	No				
Horizontal	(Y/N)	No				
Superstruct	ure General	Rating		7	6	
					Subst	ructure
Bridge Com	ponent			Last	Now	Explanation of Condition
Abutments						
	Backwall Pile					
		es Spacing(mm	n):)			
(Total Number						
Bearing Seat	_	els Detail Ratir				
	N (count)	1 (count)	2 (count)	3 (co		
Last	0	0	0		0	
Now	0	0	0		0	-
Bearing Seat	·	eis		6	6	
(Type : CO						
(Depth(mm (Width(mm						
Backwalls/Br				7	7	
Greatest H		1.20		1		
Wingwalls	eigiit (iii)	1.20		7	6	
vviiigwaiis						
(Total Number	er of Bearing	Piles : 0:0)				
Piles Detail F	Ratings					
	N (count)	1 (count)	2 (count)	3 (co	unt)	
Last	1	0	0		0	
Now	1	0	0		0	_
Piles				N	N	
Paint/Coating	9			X	X	
Abutment Sta	ability			8	7	
Scour/Erosio	n			7	7	
Piers/Bents						
(Type : PIE	R-SOLID)					Vertical crack in South pier stream side and in North pier abutment
(Total Number	er of Caps/Co	orbels::)				side has 2 vertical cracks. Vertical cracks in Sp 1 and 3 supports at ends. Some patching at NE
Bearing Seat	T .	els Detail Ratir	ngs			
	N (count)	1 (count)	2 (count)	3 (co	unt)	
Last	0	0	0		0	
Now	0	0	0		0	_
Bearing Seat	•	els		6	6	
(Type : CO	NCRETE)				Page	

					Subst	ructure						
Bridge Com	nonent			Last	Now	Explanation of Condition						
_	er of Bearing F			Last	INOW	Explanation of condition						
Piles Detail F		1103 . 0.0)				-						
i ilos Dotaii i	N (count)	1 (count)	2 (count)	3 (cou	ınt)							
Last	0	0	0		0	Massive piers.						
Now	0	0	0		0							
	er Shaft/Piles											
Greatest H		8.00		7	6							
Bracing/Strut				X	Х							
J. 11												
Nose Plate				X	X							
Paint/Coating				Х	Х							
(Colour De												
(Colour Co												
Pier Stability	·			8	8							
Scour				N	N	Ice.						
Debris (Y/N)		No										
Substructur	e General Ra	ting		6	6							
				5	Structu	re Usage						
					Now	Explanation of Condition						
Channel												
(U/S Directio	n : W)											
(D/S Directio	n : E)											
Alignment				8	8							
Bank Stability	У			6	6	Vertical banks U/S						
HWM (m bel	ow Top of Cur	·b)				HWM not visible.						
Drift (Y/N)		No										
Slope Protec	tion			4 4		(Broken up at NW, SE corners) Only top portion visible due to ice.						
(Type : CO	NCRETE; CO	NCRETE)										
Guidebank/S				X	Х							
Adequacy of	Opening			8	7							
(Fish Compe	nsation Meas	ure 1 : NONE	()									
	nsation Meas		•									
Channel Ge				4	4							

00611 -1 Bridge

Bridge Inspection & Maintenance System (Web 2005)

			Maintenance Red	commend	ations					
Inspector Recommendations	Year	Inspecto	or Comments		Department Con	nments		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2012	Add 6 spanchor in batter po	plice bolts, 1 rail to post bolt a nut. Add 2 bolts to sidewalk ra ost	and 2 ail at SW						
RETROFIT BRIDGE RAIL										
SEAL CURBS										
PATCH DECK										
SEAL DECK										
OVERLAY DECK										
RESET/ PAINT BEARINGS										
REPAINT SUPERSTRUCTURE										
STRAIGHTEN/REPLACE MEMBERS	2012	holes ne	Report, Replace hardware, seed to be drilled to accommod bolts. Install 10 missing struc	date						
WASHING										
SHOTCRETE REPAIRS										
CORE TIMBER CAPS/CORBELS										
REPAIR/REPLACE TIMBER CAPS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
OTHER ACTION										
OTHER ACTION		Replace Add 22 : rail to po	33 guardrail posts and 9 rail splice bolts and nuts as necessed bolts	sections. ssary at						
OTHER ACTION		19 19								
OTHER ACTION	2012	Recast of	damaged portions of concrete on	e slope						
Structural Condition Rating (Last/N (%)	ow) 55.6/5	5.6	Sufficiency Rating (Last/N (%)	low)	49.3/49.3	Est. Repl. Yr	2033	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection				·	Department Comments		·			
Maintenance Reviewed By					Date		E	Estimated Total	0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Owen Salava			Previous	ous Assistant's Name					
Next Inspection Date	07-Mar-2015				ious Inspection Date 21-Jun-2010					
Inspection Cycle (Default) (months)	39				,	53 301				

Alberta Transportation Bridge Inspection & Maintenance System (Web 2005)

00611 -1 Bridge

Comment